

Table 1: 2020 Spring barley variety trial, Moccasin, Montana

Variety/Pedigree	Year of Release	Source	Heading Date	Height (in)	Test Weight (lb/bu)	Protein (%)	Plumps (%)	Grain Yield (bu/ac)			3 yr Avg
								2018	2019	2020	
AAC Synergy			6-Jul	19.0	45.4	8.5	90.5			46.7	46.7
ABI Voyager			5-Jul	21.3	49.5	8.5	91.8			41.4	41.4
Balster			6-Jul	19.3	48.8	8.0	86.3	93.6	65.6	43.9	67.7
Buzz			<u>4-Jul</u>	19.3	51.1	7.9	<u>95.6</u>			47.0	47.0
CDC Copeland			5-Jul	19.7	50.0	9.1	92.3	85.6	63.0	45.4	64.7
Craft			<u>4-Jul</u>	21.3	<u>52.4</u>	8.9	94.4		60.9	49.5	55.2
Diablo			10-Jul	18.7	49.6	8.6	89.4			48.6	48.6
Ellinore			10-Jul	18.7	50.0	7.4	90.2			59.6	59.6
Expedition			9-Jul	17.7	50.5	8.7	88.1		73.7	51.1	62.4
Genie			10-Jul	16.7	50.7	8.0	90.6	95.7	71.5	45.1	70.8
Growler			6-Jul	19.3	48.1	8.7	82.2	94.0	67.7	44.8	68.8
Haxby	2003	MAES	4-Jul	18.3	50.1	8.9	86.3	101.5	66.3	48.7	72.2
Hays	2003	MAES	9-Jul	19.0	50.1	8.4	74.6	89.4	60.8	52.2	67.5
Hockett	2008	MAES	<u>4-Jul</u>	18.3	50.3	7.7	93.2	88.9	64.2	48.1	67.1
Lavina	1989	MAES/USDA	7-Jul	20.0	48.8	7.9	74.3			47.3	47.3
Leandra			10-Jul	15.0	46.4	8.4	88.1			47.0	47.0
Merit 57			6-Jul	19.3	49.5	7.8	70.5	111.0	62.8	47.3	73.7
Metcalfe		Canada	<u>4-Jul</u>	21.7	49.4	7.8	87.1	92.4	55.4	53.5	67.1
Odyssey			10-Jul	17.0	48.7	8.1	87.3	86.7	61.8	46.6	65.0
Opera			9-Jul	17.7	47.6	7.4	76.6		63.4	54.3	58.8
Mean			6-Jul	19.0	49.4	8.2	88.0	93.0	63.6	48.0	
CV%			0.0	5.3	5.4	6.1	2.6	17.1	14.1	12.1	
LSD			1.2	1.6	4.3	0.8	3.7	11.2	13.5	9.5	
P-Value			<0.001	<0.001	0.5860	0.0010	<0.001	0.0030	0.1000	0.1470	

Bolded and underlined values are the highest mean. Bolded values are not different from the highest value based on the Least Significant Difference (LSD) test

Note: Study averages include experimental lines not listed here.

N.S. = Not Significant